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STANDARD FOR DATA LABELS AND DATA ANNOTATION PROCEDURES

DOCUMENTATION GROUP RANGE COMMANDERS COUNCIL

WHITE SANDS MISSILE RANGE KWAJALEIN MISSILE RANGE YUMA PROVING GROUND

PACIFIC MISSILE TEST CENTER NAVAL WEAPONS CENTER ATLANTIC FLEET WEAPONS TRAINING FACILITY NAVAL AIR TEST CENTER

EASTERN SPACE AND MISSILE CENTER ARMAMENT DIVISION WESTERN SPACE AND MISSILE CENTER AIR FORCE SATELLITE CONTROL FACILITY AIR FORCE FLIGHT TEST CENTER AIR FORCE TACTICAL FIGHTER WEAPONS CENTER

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STANDARD FOR DATA LABELS
AND
DATA ANNOTATION PROCEDURES

DOCUMENTATION GROUP RANGE COMMANDERS COUNCIL

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#### **FOREWORD**

The data label standards and annotation procedures contained herein were approved at the 37th Meeting of the Documentation Group (DG) of the Range Commanders Council (RCC). They are intended as a common reference for the labeling and annotation of data between users and ranges and between ranges.

The DG recognizes that it may take some time for these labels and procedures to be accepted and that there will continue to be minor variances between ranges. It is hoped, however, that the universal acceptance of these labels and procedures will help to standardize and improve range interactions.

This is the first edition of this document. Recommendations for improvement are solicited. Please address your comments or questions to:

Chairman, Documentation Group c/o Secretariat Range Commanders Council ATTN: STEWS-SA-R White Sands Missile Range, NM 88002



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By					
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A					

# STANDARD FOR DATA LABELS AND DATA ANNOTATION PROCEDURES

# 1.0 \INTRODUCTION

Test operations conducted by the various members and associate members of the Range Commanders Council (RCC) generate many data products for delivery to range users or for exchange between participating ranges. This procedure establishes a standard for technical annotation of selected data (items) produced by these ranges.

#### 2.0 BACKGROUND

The RCC Documentation Group (DG) was tasked to develop a standard for data labels and data annotation procedures by the RCC Executive Committee. To assure the maximum utility of the final labels, all members of the RCC were requested to provide their inputs regarding information required and label configurations. The labels presented in this document represent a compilation of the inputs received after a collective screening by the members of the DG. The label formats and annotations are considered the minimum information required for data products exchanged between ranges or between a range and its range users. This does not preclude additional peculiar identification requirements of individual ranges.

#### 3.0 OBJECTIVES

The objectives of this document are to develop data labels and annotation procedures to provide a minimum standard for data identification. A secondary objective is to develop instructions to build uniformity into the required annotations.

#### 4.0 EXPLANATION OF TERMS

- 4.1 Data Item RCC Document 502-81, Glossary of Range Terminology, defines a data item as a unit of information.
- 4.2 Data Product(s) Any item generated by an official operation by a member range and required for delivery to a range user or member range by official documentation. A data product(s) is classified into the following categories:
- 4.2.1 Analog Telemetry Tape Magnetic tape which contains telemetered information in the form of a varying frequency or voltage received from a sensor. It includes positional and velocity data recorded in digital format on magnetic tape from a tracking sensor.
- 4.2.2 Data Labels Any stamped, preprinted, or attachable label used to annotate a data product with identifying technical information.

- 4.2.3 Formatted Telemetry Tape Magnetic tape which contains formatted telemetered information received from a sensor. The data is in a digital format consisting of a series of discrete frequencies (pre- and postdetection) on a series of discrete voltage levels (digitized binary video).
- 4.2.4 General Purpose This includes those data products not included in one of those categories listed. It can also include data products included here which are not readily identified in their normal stored or shipping condition (i.e., placed in a box or container, rolled with identification on inner surface, report format, etc.).
- 4.2.5 Metric Magnetic Tape Magnetic tape containing positional data and their derivatives recorded in digital format from a tracking sensor.
- 4.2.6 Oscillogram A continuous trace fluctuating between specific limits displayed on a recording media.
- 4.2.7 Raw Data Data produced by operational activities in which no processing outside of the normal handling and control activity is involved.
- 4.2.8 Reproduced Data Copies or dubs which are made from original material. "Copies" refers to paper duplications made of original materials, regardless of how the copies are produced. These copies are usually made by a Xerox process, but can include offset printing. "Dubs" refers to magnetic tape duplications of original materials.

#### 5.0 STANDARD DATA LABELS

Appendixes A through E contain the identification of selected labels and detailed annotation procedures. These labels represent the minimum number required to cover the most commonly used data products. A pictorial representation of each is included. Specific dimensions of each label have not been identified and will be dependent upon the data products used at the individual ranges.

- 5.1 Metric Magnetic Tape (appendix A) This label is to be used for all metric magnetic tape recordings.
- 5.2 Telemetry Data Recordings (appendix B) These data labels include telemetry magnetic tape, in two parts, and oscillogram/pen recorders. The two-part labeling for telemetry magnetic tape was considered to be the most effective method of retaining all pertinent data. The oscillogram/pen recorder label is dual purpose due to the commonality of required information.
- 5.3 Photographic Data (appendix C) These labels are for initial film exposed by either tracking or documentary cameras and any subsequent copy, negative, or print produced from the initial film. Also included is a label for the film can.
- 5.4 General Purpose (appendix D) This label is used for data products for which a specific label has not been developed.

 $5.5\,$  Special Purpose (appendix E) - These labels identify special conditions of recording mediums.

#### 6.0 SECURITY CLASSIFICATION

The labels identified in the appendixes provide for the inclusion of the overall classification only. Any additional marking requirements prescribed by DOD regulations governing all forms of classified material must be adhered to.

# Appendix A

METRIC MAGNETIC TAPE LABELING INSTRUCTIONS

CLASSIFICATION	
TEST FACILITY	DATA ITEM NO.

## METRIC MAGNETIC TAPE

VEH OBJ

TITLE: OD NO. DATE (UTC) TIME (UTC) FRO TRACK	OP NO. ACQ SITE MTO BCD/BN	REEL OF COPY  DENSITY  TAPE SPEED  REWOUND	OFCPW
REMARKS			

#### METRIC MAGNETIC TAPE LABELING INSTRUCTIONS

CLASSIFICATION	Enter classification of the highest classification of data and the governing documents.
VEH/OBJ	Enter identifier of vehicle or object tracked.
TEST FACILITY	Enter test facility or organization.
DATA ITEM NO.	Enter data item number assigned by the Operations Directive test document; e.g., 904.00, 908.00E, etc.
TITLE	Enter descriptive title provided in Operations Directive; e.g., 1218 comp. dgtl. mag tape 4101, etc.
OD NO.	Enter Operations Directive (OD) number.
OP NO.	Enter local operations number.
REEL	Enter sequence of metric magnetic tapes produced; e.g., 1 of 2, 2 of 2, etc. Same sequence as used by operator in log.
COPY	Enter copy number vs total copies made; e.g., 1 of 10, 5 of 10, etc.
DATE (UTC)	Enter Universal Time Coordinated (UTC) date corresponding to first recorded vehicle data on tape; e.g., 12 Jan 81.

ACQ SITE Enter site identifier code of recording site; e.g.,

radar 0.14, etc.

DENSITY Enter number of bits per inch (BPI) recorded.

CPW Indicate three or four characters per word (CPW).

TIME (UTC) Enter the UTC time from first record to last

record, in hours and minutes; e.g., 1632 to

1635, etc.

TAPE SPEED Enter tape speed at time of recording.

TRACK Indicate tape track number(s).

BCD/BN Indicate whether data tape was written in binary

coded decimal (BCD) format or a binary format (BN).

REWOUND Enter X if data tape has been rewound.

REMARKS Enter additional remarks necessary to properly

interpret the data.

# Appendix B

TELEMETRY DATA RECORDING LABELING INSTRUCTIONS

		CLASSIFICATION	
	ORIG DUB REWOUND	TEST FACILITY	DATA ITEM NO.
OP NO. DATE (UTC) ACQ SITE REMARKS:	OD NOTI	EMETRY MAGNETIC TAPE LABEL REEL OF ME SPAN (UTC) FROM TO RCDR NO.	COPY OF TAPE SP
		TELEMETRY MAGNETIC TAPE LA	BEL INSTRUCTIONS
CLASSIFICATION		Enter classification of th data and the governing doc	e highest classification of cuments.
TEST FACILITY		Enter test facility or org	anization.
ORIG/DUB		Check whether the tape is	an original or a dub.
REWOUND		Check if the tape has been	rewound.
DATA ITEM NO.		Enter the full data item n requirements document.	umber as specified in the
OP NO.		Enter the local operations	number.
OD NO.		Enter the number of the Op under which the operation	
REEL OF		Enter tape sequence number etc.	(1 of 1), (1 of 2), (2 of 2),

Enter the copy sequence number.

Enter the Universal Time Coordinated (UTC) date which corresponds to the time of the first recorded data; e.g.,  $12\ \mathrm{Jan}\ 81.$ 

COPY \_\_\_ OF \_\_\_

DATE (UTC)

TIME SPAN (UTC) Enter the UTC start and stop times of the tape recorder in units of hours, minutes and seconds. ACQ SITE Enter the site code, station name or sensor ID of the element producing the original telemetry tape. RCDR NO. Enter the serial number or local ID number of the recorder used at the acquisition site identified above. TAPE SP Enter the tape speed in inches per second (IPS) at which the original tape was recorded. PEMARKS Enter those remarks needed to properly interpret the data.

# TELEMETRY MAGNETIC TAPE DATA LABEL

		C	LASSI	FICATIO	N	<del></del>					
ORIG DUB				/===		• • • • • • • • • • • • • • • • • • • •		DAT	A ITE	M NO.	•
REWO				( IES	I FAC	ILITY)		OP	NO		-
REEL		_0F_				COPY	0F				
OD N	O.	NO.		FMT	R /TY	TAPE	SPEED -	CUB	NΛ	ips	
DATE	(UTC	()		noq nob		PE). TIME SPA TIME	N (UTC)				•
TIME	CODE	GEN			TΛD	TIME	DELAY	oc .			
AIRC	RAFT	NO.					3121	·			•
				TAPE TR	ACK A	SSIGNMEN	TS				
		HNIQ		CON	TENTS				CONF		]
TRK	POST	-D	PRE D	L	ERAL	<del>-</del>	RX OF		F BW	VIDEO	
1	DIK			GEN	ERAL		CBIN	<del>'- -</del> -	F DW	DW	
2											
3				<del> </del>		<del></del>	<del></del>	4-			
5							<u> </u>				
6 7								4			
8			<del> </del>	<del>                                     </del>		<del></del>	<del> </del>	+			1
9								1			1
10 11						<del></del>	+				
12								-1-			1
13 14			<b></b>								
17	L	<u> </u>	<b></b>								J
				MI XER	ASSI	GNMENTS					
MXR				MIXER	1		MIXER 2			IXER 3	}
FREQ 3.0		<del> </del>						<del> </del>			
3.9	KHZ										1
5.4	KHZ				1						
7.35 10.5	KHZ				+	<del></del>		<del> </del>		<del></del>	1
14.5	KHZ								· · · · · · · ·		1
22.0 30.0	KHZ KH7										
40.0	KHZ					<del></del>					<del>]</del>
52.5	KHZ										
70.5 DI RE	CT CT					<del></del>	<del></del>				
DI RE	CT				工						]
					RF LI	NKS					
RF			OS		LOS		RF		AOS		LOS
RF REMA	DVC	A(	OS		LOS		RF		AOS		LOS
KCMA	~~~	<del></del>				····					- <del>1</del>
						·					

TELEMETRY MAGNETIC TAPE DATA LABEL INSTRUCTIONS

CLASSIFICATION Enter classification of the highest classification of data and the governing document. TEST FACILITY Enter test facility or organization. ORIG/DUB Check whether the tape is the original or a dub. REWOUND Check if the tape has been rewound. DATA ITEM NO. Enter the full data item number as specified in the requirements document. OP NO. Enter the local operations number. REEL 0F Enter the reel sequence number; e.g., 1 of 1, 1 of 2, 2 of 2, etc. COPY OF Enter the copy sequence number. OD NO. Enter the number of the Operations Directive (OD) under which the operation was scheduled. **FMT** Enter the format number specified in the applicable requirement document. Enter the tape speed in inches per second (IPS). TAPE SPEED IPS Enter the site code or station name of the ACQ SITE NO. recording site. ACQ RCDR (TYPE) Enter the manufacturer and model ID of the recorder used to record the original data. Enter the serial number or local ID number of the RCDR NO. recorder used to record the original data. DATE (UTC) Enter the Universal Time Coordinated (UTC) date which corresponds to the time of the first recorded data; e.g., 12 Jan 81. TIME SPAN (UTC) TO Enter the start and stop times (UTC) of the tape recorder in units of hours, minutes and seconds. TIME CODE GEN Enter the ID number of the time code generator being used. Enter the time delay in milliseconds and indicate TIME DELAY path involved. CALIB START STOP Enter the UTC time of calibration start and stop and STEPS the steps in dB and times.

AIRCRAFT NO.

For those operations involving aircraft, enter the aircraft number.

TAPE TRACK ASSIGNMENTS

Indicate type of recording used; Post-D direct or FM and/or Pre-D. Identify the source of the track, the frequency, the antenna and the receiver. Define the receiver configuration by receiver number or combiner number, IF bandwidth and video bandwidth.

MIXER ASSIGNMENTS

Enter the percent deviation (7.5 or 15) and the contents of the data or the specified Voltage Controlled Oscillator (VCO) channel.

RF LINKS

Enter the rf and the UTC time of acquisition of signal

(AOS) and loss of signal (LOS).

**REMARKS** 

Enter additional remarks necessary to properly

interpret the data.

(TEST FACILITY)					
OCCILLOCDAM/CT	DID CHART DE	CODDED LADEL			
OSCILLOGRAM/ST			TA ITEM NO		
			TA ITEM NO		
			C) FROM TO		
			TIME CODE		
			0F		
			IPS		
			P/B		
			STEPS		
				_	
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<u></u>					
<del></del>	·····				
		<del></del>	· · · · · · · · · · · · · · · · · · ·		
		<del></del>	<del></del>		

OSCILLOGRAM/STRIP CHART RECORDER LABEL

# OSCILLOGRAM/STRIP CHART RECORDER LABEL INSTRUCTIONS

CLASSIFICATION	Enter classification of the highest classification of data and the governing document.
TEST FACILITY	Enter test facility or organization.
SITE	Enter the site code, station name or sensor ID of the element producing the original oscillogram/strip chart.
DATA ITEM NO.	Enter the full data item number as specified in the requirements document.
OP NO.	Enter the local operations number.
OD NO.	Enter the number of the Operations Directive (OD) under which the applicable operation was scheduled.
RCDR .	Enter the serial number or local ID number of the recorder used to record the original data.
DATE (UTC)	Enter the Universal Time Coordinated (UTC) date which corresponds to the time of the first recorded data; e.g., 12 Jan 1981.
TIME (UTC) FROM_TO	Enter the start and stop times (UTC) of the recorder in units of hours, minutes and seconds.
CHART SPEED	Enter the speed in inches per second (IPS) at which the original data was recorded.
IRIG TIME CODE	Enter the IRIG time code displayed on the designated track; e.g., H002.
COPY NO.	Enter the copy number.
CHART NO OF	Enter the chart sequence number.
TIMING LINE RATE_IPS	Enter the timing rate of reference lines.
PERM/D/W	Check if this is a permanent or a direct write oscillogram.
R/T P/B	Check if this is recorded in real time or in the playback mode.
CALIB PRE/POST/STEPS	Check which calibrations were accomplished (pre/post) and enter the steps in dB and times.
PEN/TRACE NO.	Enter the pen/trace number vs trace contents as described in the requirements document; e.g., link or frequency, name, subcarrier, channel/segment number, etc.

# Appendix C

PHOTOGRAPHIC DATA LABELING INSTRUCTIONS

#### TEST FACILITY

DATA ITEM NO.	OP/TEST NO.
	<b>\</b>
CLASSIFICATION	DATE
FILM TYPE	FOOTAGE
·	·
TITLE	
STATION	

#### FILM CAN LABELING INSTRUCTIONS

TEST FACILITY Enter test facility or organization.

DATA ITEM NO. Enter full data item number assigned by the operations

directive document.

OP/TEST NO. Enter appropriate operations/test number.

CLASSIFICATION Enter classification that covers the highest classi-

fication of the data and the governing document.

DATE Enter the Universal Time Coordinated (UTC) date

corresponding to time of the first recorded data.

FILM TYPE Enter the manufacturers type or comparable number.

FOOTAGE Enter footage of film in feet.

TITLE

Enter data item name as specified by the Operations Directive (OD) document.

STATION

Enter site identifier code of the acquisition site that gathered the data.

		PHOTO-OPTICAL DATA LABEL
	TYPE	DOC TRACKING
[		SITE
		DATE
		EMULSION NO.
	ASA NO.	FILTER
		SIZE
	CAMERA TYPE	NO
{	LENS TYPE	F/L
	SHUTTER	F/STOP
	TIME FROM	ТО
	CLASSIFICATION	
·		PHOTO-OPTICAL DATA LABELING INSTRUCTIONS
TYPE		Enter the type of photo-optical data contained. Check documentary or tracking data.
OP NO.		Enter the operations number of which the data was acquired.
SITE		Enter the site identifier code of the acquisition site that gathered the data.
ITEM NO.		Enter the full data item number as specified in the applicable requirements document.
DATE		Enter the Universal Time Coordinated (UTC) date which corresponds to the time of first recorded data.
FILM TYP	E	Enter the manufacturer type or comparable number.
EMULSION	NO.	Enter the emulsion number of the film used.
ASA NO.		Enter the ASA number of the film used.
FILTER		Enter the type or standard number of filter(s).
FOOTAGE		Enter the footage of film in feet.
SIZE		Enter the size of film used.
CAMERA T	YPE NO	Enter the type/name/number of camera used.

LENS TYPE \_\_ F/L \_\_ Enter the type and focal length of lens used.

SHUTTER

Enter the style of shutter used.

F-STOP

Enter the F-stop setting of the camera/lens.

TIME FROM \_\_ TO \_\_

Enter first start time (UTC) of data recorded to the last stop time of recorded data.  $\label{eq:total_cond}$ 

**OPERATOR** 

Enter the name and organization of responsible person.

CLASSIFICATION

Enter the classification of the highest classification

of data and the governing documents.

PHOTOGRAP CLASSIFICATION	PHIC FILM LABEL
MASTER: COLOR B&W	OPTICAL POSITION  CONTACT A B
B&W ORIGINAL	PRINT
COLOR ORIGINAL	WORK PRINT A B
TEST NO.	DATE FT
ITEM NO.	PROD NO.
REF NO.	EDGE NOS.
OD NO.	SITE
REMARKS	

#### PHOTOGRAPHIC FILM LABELING INSTRUCTIONS

CLASSIFICATION

Enter classification of the highest classification

of data and the governing documents.

MASTER

Enter check to indicate color, black and white (B&W),

optical, contact, and position A or B.

B&W

Enter check to indicate original or print.

COLOR ORIGINAL

Enter check if film is color original.

**WORK PRINT** 

Enter A or B if a work print.

TEST NO.

Enter test or operations number for acquired data.

DATE

Enter Universal Time Coordinated (UTC) date corresponding to time of first recorded data.

FT

Enter length of film in feet.

ITEM NO.

Enter full data item number as specified in applicable

Operations Directive document.

PROD NO.

Enter the production number of the original and all

sequential numbers of the copies of the film.

REF NO.

Enter the laboratory identification number that is perforated on the actual film for control in the laboratory.

EDGE NO.

Enter the edit instruction number being used for

editing the film.

OD NO.

Enter number of Operations Directive (OD) under which the operation was scheduled.

SITE

Enter site identifier code for site that gathered the

data.

REMARKS

Enter additional remarks necessary to properly interpret the information.

# Appendix D

GENERAL PURPOSE DATA LABELING INSTRUCTIONS

	CLASSIFICATION			٦
	TEST	FACILITY		
	GENERAL	PURPOSE DATA		
TITLE _	**************************************			
OP NO	DATE	(UTC)	_ ACQ SITE _	
OD NO	DATA	ITEM NO.	· · · · · · · · · · · · · · · · · · ·	
REMARKS				

GENERAL PURPOSE DATA LABELING INSTRUCTIONS

CLASSIFICATION

Enter classification of the highest classification

of data and the governing documents.

TEST FACILITY

Enter test facility or organization.

TITLE

Enter data item name as specified by the Operations

Directive document.

OP NO.

Enter operations number for which the data was acquired.

DATE (UTC)

Enter Universal Time Coordinated (UTC) date corresponding

to time of the first recorded data.

ACQ SITE

Enter site identifier code of the acquisition site

that gathered the data.

OD NO.

Enter number of the Operations Directive (OD) under which

the operation was scheduled.

DATA ITEM NO.

Enter full data item number as specified in the applicable

Operations Directive document.

REMARKS

Enter additional information necessary to properly

interpret the data.

# Appendix E

SPECIAL PURPOSE DATA LABELING INSTRUCTIONS

# TAPE NUMBER TAPE TYPE MIL SIZE TAPE FOOTAGE DATE CERTIFIED BY FREQUENCY TESTED

#### RECERTIFIED ANALOG TAPE LABELING INSTRUCTIONS

TAPE NUMBER Enter the local control number.

TAPE TYPE Enter the appropriate type-name-manufacturer.

MIL SIZE Enter the tape thickness in mils.

TAPE FOOTAGE Enter the length of tape in feet.

DATE Enter date tape was recertified.

CERTIFIED BY Enter authorized signature or Quality Control

stamp.

FREQUENCY TESTED Enter the frequency used in recertification of tape.

### DEGAUSSED

# I/A/W-DSAM 8500.1 APPENDIX III NAS SPECIFICATION

DATE: _	E:SIGNED:								
This la	ıbel	must	be	removed	when	tape	is	reused.	

DEGAUSSED TAPE LABELING INSTRUCTIONS

DATE

Enter date the tape was degaussed and repackaged.

SIGNED

Enter the signature of the authorized person.